

Amendments to the Claims

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claims 24 and 36 are cancelled without prejudice or disclaimer, claims 13, 14, 16, 17, and 30 are amended, and new claims 45-56 are added.

Listing of Claims

1. (Original) A method of mobile multimedia terminal interactivity, comprising the steps of:
requesting information from a digital service provider;
receiving a data signal from said digital service provider over the air;
decoding said data signal for presentation;
optimizing said data signal for output; and
presenting said optimized signal as output.
2. (Original) The method of Claim 1, wherein said requesting step uses one of a plurality of wireless communications links.
3. (Original) The method of Claim 1, wherein said requesting step uses one of a plurality of wireless communications links and a controller determines the appropriate communications link.
4. (Original) The method of Claim 1, further comprising the step of storing said data signal.
5. (Original) The method of Claim 1, wherein said optimizing step further comprises the step of

manipulating the data signal for display.

6. (Original) The method of Claim 1, wherein said optimizing step further comprises the step of combining said data signal with other data to create a display.

7. (Original) The method of Claim 1, wherein said data signal is received from a digital broadcast channel.

8. (Original) The method of Claim 1, wherein said data signal is display data for a mobile station.

9. (Original) The method of Claim 1, wherein said data signal is in DVB-T format.

10. (Original) The method of Claim 1, wherein said data signal is in MP3 format.

11. (Original) The method of Claim 1, wherein said presenting step uses a video display.

12. (Original) The method of Claim 1, wherein said presenting step uses an audio output.

13. (Currently Amended) A mobile multimedia terminal, comprising:

at least one receiver connected to receive over the air data signals;

a controller connected to said receiver to manage and coordinate the functions of said receiver;

a display interface connected to said a media decoder to optimize said received over the

air data signals for display; and

a low power radio frequency transceiver connected to said controller to provide an interactive environment with respect to said received over the air data signals.

14. (Currently Amended) The mobile multimedia terminal of Claim 13, ~~further comprising a~~ wherein said media decoder is connected to said receiver and said controller to decode said received over the air data signals.

15. (Original) The mobile multimedia terminal of Claim 13, wherein said controller switches the operation of said receiver on and off according to the communications environment.

16. (Currently Amended) The mobile multimedia terminal of Claim 13, further comprising a timing and synchronization manager connected to said controller and said receiver.

17. (Currently Amended) The mobile multimedia terminal of Claim 13, further comprising a timing and synchronization manager connected to said controller and said receiver wherein said timing and synchronization manager enables reception of said over the air data signals without resynchronizing said receiver.

18. (Original) The mobile multimedia terminal of Claim 13, further comprising a display connected to said display interface to display video data.

19. (Original) The mobile multimedia terminal of Claim 13, further comprising an audio output

to present audio data.

20. (Original) The mobile multimedia terminal of Claim 13, further comprising memory connected to said controller to store said received over the air data signals.

21. (Original) The mobile multimedia terminal of Claim 13, wherein said over the air data signal is display data for a mobile station.

22. (Original) The mobile multimedia terminal of Claim 13, further comprising a wireless local area network transceiver connected to said controller to provide interactivity with said received over the air data signals.

23. (Original) The mobile multimedia terminal of Claim 13, further comprising a mobile station transceiver connected to said controller to provide interactivity with said received over the air data signals.

24. Canceled

25. (Original) The mobile multimedia terminal of Claim 13, further comprising a mobile station transceiver and a wireless local area network transceiver connected to said controller wherein said controller selects one of said transceivers to provide interactivity with said received over the air data signals according to the communications environment.

26. (Original) The mobile multimedia terminal of Claim 13, wherein at least one of said receivers is a DVB-T receiver.

27. (Original) An interactive mobile multimedia terminal system, comprising:

a mobile station which communicates data requests;

a service provider which receives said data requests and provides data according to said requests;

a broadcast operator which receives said data from said service provider and transmits said data over a broadcast channel; and

a mobile multimedia terminal which includes,

at least one receiver which receives said data;

a media decoder connected to said receiver to decode said received data;

a controller connected to said receiver and said media decoder to manage and coordinated the functions of said receiver and said media decoder;

a display interface connected to said media decoder to optimize said received data for display; and

a low power radio frequency transceiver connected to said controller to provide interactivity with said received data and a communications link to said mobile station.

28. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said controller switches the operation of said receiver on and off according to the communications environment.

29. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a timing and synchronization connected to said controller and said receiver.

30. (Currently Amended) The interactive mobile multimedia terminal system of Claim 27, further comprising a timing and synchronization manager connected to said controller and said receiver wherein said timing and synchronization manager enables reception of said over the air data signals without resynchronizing said receiver.

31. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a mobile station transceiver and a wireless local area network transceiver connected to said controller wherein said controller selects one of said transceivers to provide interactivity with said received over the air data signals according to the communications environment. §

32. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein at least one of said receivers is a DVB-T receiver.

33. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said over the air data signal is display data for said mobile station.

34. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a media decoder connected to said receiver and said controller to decode said received over the air data signals.

35. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a display connected to said display interface to display video data;.

36. Canceled

37. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising audio output to present audio data.

38. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising memory connected to said controller to store said received over the air data signals.

39. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a wireless local area network transceiver connected to said controller to provide interactivity with said received over the air data signals.

40. (Original) The interactive mobile multimedia terminal system of Claim 27, further comprising a mobile station transceiver connected to said controller to provide interactivity with said received over the air data signals.

41. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said mobile station includes a low-power radio frequency transceiver for receiving data from said mobile multimedia terminal.

42. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said mobile multimedia terminal transmits data requests to said mobile station.

43. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said mobile multimedia terminal transmits data requests to said mobile station using said low-power radio frequency transceiver.

44. (Original) The interactive mobile multimedia terminal system of Claim 27, wherein said mobile station is integrated into said mobile multimedia terminal.

45. (New) A method for power saving, comprising:

deactivating a receiver; and

activating the receiver in accordance with service information.

46. (New) The method of claim 45, further comprising storing in memory data received via the receiver.

47. (New) The method of claim 46, further comprising employing the stored data in content presentation.

48. (New) A method for interactivity, comprising:

determining a current communications environment; and

selecting one of a first transceiver and a second transceiver to provide interactivity with

received over the air data signals,

wherein the first transceiver is a local link transceiver and the second transceiver is a mobile station link transceiver.

49. (New) The method of claim 48, wherein the local link transceiver is a WLAN transceiver.

50. (New) The method of claim 48, wherein the local link transceiver is a bluetooth transceiver.

51. (New) The method of claim 48, wherein the mobile station link transceiver is a GSM transceiver.

52. (New) The method of claim 48, wherein the mobile station link transceiver is a CDMA transceiver.

53. (New) A method for data reception, comprising:

activating a receiver at a time a user wishes to receive broadcast data;

receiving data via the receiver; and

storing the received data in a memory for later presentation.

54. (New) The method of claim 53, wherein the memory is a buffer.

55. (New) The method of claim 53, wherein the memory is storage memory.

56. (New) The method of claim 53, wherein the memory is a memory card.